

## CLAIMS

The embodiments of the invention in which an exclusive property or right is claimed are defined as follows. Having thus described the invention

5 what is claimed is:

1. A caller identification data management apparatus, said apparatus comprising:

10 a data management unit having a plurality of input buttons thereon, which permit a user to input data and commands to said data management unit, wherein said data management unit is connectable to a telephone;

15 a caller identification module associated with said data management unit, wherein said caller identification module generates caller identification data based on caller identification data contained within a ring pattern of an incoming telephone call;

20 a printer unit integrated with said data management unit, wherein said printer unit prints at least one of the following:

a) caller identification data generated by said caller identification module;

25 b) address information associated with caller identification data; and

c) data entered into said data management ; and

30 a display screen for displaying caller identification data generated by said caller identification module for a user.

2. The apparatus of claim 1 wherein said printer unit comprises a thermal printer.

3. The apparatus of claim 1 further comprising:

5 a database for storing said caller identification data, wherein said  
database communicates with said data management unit for processing of  
said caller identification data for display via display screen and printing via  
said printer unit.

4. The apparatus of claim 1 further comprising:

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a PDA communications mechanism for communicating said caller  
identification data to and from a PDA to and from said data management unit.

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5. The apparatus of claim 4 wherein said PDA communications  
mechanism comprises an infrared (IR) port integrated with said data  
management unit.

6. The apparatus of claim 1 further comprising:

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a wireless telephone communications mechanism for communicating  
said caller identification data to and from a wireless telephone to and from  
said data management unit.

7. The apparatus of claim 1 further comprising:

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a computer communications mechanism for communicating said caller  
identification data to and from a computer to and from said data management  
unit.

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8. The apparatus of claim 7 wherein said computer communications  
mechanism comprises at least one USB port integrated with said data  
management unit.

9. The apparatus of claim 7 wherein said computer communications mechanism comprises at least one serial port integrated with said data management unit.

5 10. The apparatus of claim 1 wherein said data management unit comprises a processor for processing said caller identification data, such that said processor communicates with said database.

11. The apparatus of claim 1 further comprising:

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a digital recorder, which communicates with said data management unit to record and play telephone messages;

15 a speaker associated with said digital recorder; and

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a microphone associated with said digital recorder.

12. The apparatus of claim 1 wherein said display screen comprises back lighting.

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13. The apparatus of claim 12 further comprising means for communicating with a mobile device.

25 14. A method for caller identification data management, said method comprising the steps of:

30 providing a data management unit having a plurality of input buttons thereon that permit a user to input commands and data into said data management unit, wherein said data management unit is connectable to a telephone;

associating a caller identification module with said data management unit, wherein said caller identification module generates caller identification

data based on caller identification data contained within a ring pattern of an incoming telephone call;

5                   integrating a printer unit with said data management unit, wherein said printer unit prints at least one of caller identification data generated by said caller identification module and data entered into said data management unit via said buttons; and

10                  displaying caller identification data generated by said caller identification module for a user via a display screen integrated with said data management unit.

15.         The method of claim 14 further comprising the step of:

15                  providing a database for storing said caller identification data and data entered into said data management unit via said buttons, wherein said database communicates with said data management unit for processing of said caller identification data for display via display screen and for printing of at least one of said caller identification data generated by said caller identification module and data entered into said data management unit via said buttons via said printer unit.

16.         The method of claim 14 further comprising the step of:

25                  providing a processor for processing said caller identification data, such that said processor communicates with said database and wherein said processor is integrated with said data management unit.

17.         The method of claim 1 further comprising the steps of:

30                  configuring said data management unit with means to communicate with mobile devices wirelessly; and

enabling wireless communication between said data management unit and a mobile device.

18. A method for caller identification data management, said method  
5 comprising the steps of:

providing a data management unit having a plurality of input buttons thereon, which permit a user to input data and commands to said data management unit, wherein said data management unit is connectable to a  
10 telephone;

associating a caller identification module with said data management unit, wherein said caller identification module generates caller identification data based on caller identification data contained within a ring pattern of an  
15 incoming telephone call;

integrating a printer unit with said data management unit, wherein said printer unit prints caller identification data generated by said caller identification module and data entered into said data management unit via  
20 said input buttons, wherein said printer unit comprises a thermal printer;

displaying caller identification data generated by said caller identification module for a user via a display screen integrated with said data management unit;

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providing a database for storing said caller identification data and data entered into said data management unit via said input buttons, wherein said database communicates with said data management unit for processing of said caller identification data for display via display screen and for printing  
30 caller identification data and/or data entered into said data management unit via said input buttons, wherein printing is via said printer unit; and

providing a processor for processing said caller identification data and

said data entered into said data management unit via said input buttons, such that said processor communicates with said database and wherein said processor is integrated with said data management unit..

5     19.   The method of claim 18 further comprising the steps of:

configuring said data management unit with means to communicate with mobile devices wirelessly; and

10                 enabling wireless communication between said data management unit and a mobile device.

20.   The method of claim 19 wherein said mobile device comprises a Personal Digital Assistant (PDA).

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(Docket No. 1000)